



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 2  
DESA/HWSB/HWSS  
2890 Woodbridge Avenue, Edison, NJ 08837

## EXECUTIVE NARRATIVE

**Case No.:** 48579

**Site:** Pierson's Creek

**Number of Samples:** 6 (Water)

**Analysis:** TVOA, SVOA, PEST, ARO

**SDG No.:** BFQX9

**Laboratory:** Chemtech Consulting Group

**Sampling dates:** 12/11/2019 – 12/12/2019

**Validation SOP:** HW-34A (Rev 1), HW-35A (Rev 1),  
HW-36A (Rev 1), HW-37A (Rev 0)

**QAPP:**

**Contractor:** CDM Smith

**Reference:** DCN: 3323-060-03778, February 2019

### **SUMMARY OF DEFINITIONS:**

**Critical:** Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified “R” rejected.

**Major:** A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data has been qualified “J” estimated. “J+” and “J-” represent likely direction of the bias.

**Minor:** The level of uncertainty is acceptable. No significant bias in the data was observed.

### **Critical Findings:**

None.

### **Major Findings:**

The following samples have analytes that have been qualified “J”, “J+” or “J-”.

**TVOA:** BFQT3, BFQX4, BFQX9, BFRB8

**PEST:** BFQT2

### **Minor Findings:**

One or more analytes in one or more samples are qualified “J” due to results between MDL and CRQL.

**COMMENTS:** **TVOA, SVOA, PEST:** One or more detected and non-detected analytes exceeded the project action levels for one or more samples.  
**ARO:** One or more non-detected analytes exceeded the project action levels for one or more samples.

**Reviewer Name(s):** Raxa J. Shelley

**Approver's Signature:**

Date: 02/11/2020

**Name:** Russell Arnone

**Affiliation:** USEPA/R2/HWSB/HWSS



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Data Qualifier Definitions (National Functional Guidelines)			
Qualifier Symbol	Explanation		
	INORGANICS	ORGANICS	CHLORINATED DIOXIN/FURAN
U	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.	
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.	
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
N		The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".	
NJ		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
C		This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
X		This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.	



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## DATA ASSESSMENT

### ANALYSIS: TVOA

The current SOP HW-34A (Rev. 1) September, 2016, USEPA Region II for the evaluation of Trace Volatile organic data generated through Statement of Work SOM02.2, and any future editorial revisions of SOM02.2, has been applied. Data have been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report. Tentatively Identified Compounds (TICs) for TVOA organic fraction is not validated.

#### 1. HOLDING TIME AND PRESERVATION:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as unusable, "R". Use professional judgment to qualify detects and non-detects for aqueous sample whose temperature is above 6 degree or below 2 degree C Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

#### 2. DEUTERATED MONITORING COMPOUNDS (DMC's):

All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recovery limits were outside Table 6 of the SOP HW 34A (Rev 1), qualifications were applied as per Table 7 of the SOP HW 34A (Rev. 1) to all the samples and analytes as shown below.

The following samples have DMC/surrogate percent recovery values less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J-. Non-detected compounds are qualified UJ.

**1,1-Dichloroethene-d2** BFQT3, BFQX4  
trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, 1,1-Dichloroethene

**Toluene-d8** BFQX4, BFQX9, BFRB8  
Trichloroethene, Toluene, Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

#### 3. MATRIX SPIKE/ MATRIX SPIKE RECOVERY:

MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable.

#### 4. BLANK CONTAMINATION:



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Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as per Table 5 of SOP HW-34A (Rev 1).

**A) Method blank contamination:**

The following samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration less than 2x the CRQL. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations have been reported at the CRQLs.

**Acetone** BFQT2, BFQT3, BFQX4

**Methylene chloride** BFQT3

**B) Field or rinse blank contamination:**

Not applicable.

**C) Trip blank contamination:** BFRB9

No additional qualification is required due to trip blank contamination.

**D) Storage Blank associated with TVOA samples only:**

No additional qualification is required due to storage blank contamination.

**E) Tentatively Identified Compounds:**

Tentatively Identified Compounds (TICs) for TVOA organic fraction are not validated.

**5. MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental



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sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial, ICV and continuing calibration should meet the minimum RRF criteria as listed in Table 2 of SOP HW 34A (Rev. 1). If RRF is less than minimum RRF specified in Table 2 for all target analytes, use professional judgment and all detects in the sample will be qualified as "J+" or "R". All non-detects for that compound will be rejected "R".

No problems were found for this criterion.

**B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration.

Percent RSD must be less than maximum %RSD in Table 2 of SOP HW 34A (Rev. 1) for all target analytes. For the opening or closing CCV %D must be within the inclusive opening or closing maximum %D limits as listed in Table 2 of SOP HW 34A (Rev. 1) for all Target compounds. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, detects may be qualified as "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**7. INTERNAL STANDARDS PERFORMANCE GC/MS:**

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must be in the range as specified in Table 9 of SOP HW 34A (Rev. 1) of the associated continuing calibration internal standard area. The retention time of the internal standards must be within the range as specified in Table 9 of SOP HW 34A (Rev. 1). If the area count is greater than, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".

If an internal standard retention time were not met as specified in Table 9 of SOP HW 34A (Rev. 1), the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**8. FIELD DUPLICATES:**



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No field duplicate sample was identified in this SDG.

**9. COMPOUND IDENTIFICATION:**

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within a window of 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**10. CONTRACT PROBLEMS NON-COMPLIANCE:**

None.

**11. FIELD DOCUMENTATION:**

No problems were identified.

**12. OTHER PROBLEMS:**

None.

**13. DILUTIONS, RE-EXTRactions & REANALYSIS:**

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.

**ANALYSIS: SVOA**

The current SOP HW-35A (Revision 1) September 2016, USEPA Region II for the evaluation of Semi-Volatile organic data generated through Statement of Work SOM02.2, and any future editorial revisions of SOM02.2 has been applied. Data has been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report. Tentatively Identified Compounds (TICs) for BNA organic fraction is not validated.

**1. HOLDING TIME AND PRESERVATION:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded, qualifications will be applied as per SOP HW-35A (Rev 1).

No problems were found for this criterion.



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**2. DEUTERATED MONITORING COMPOUNDS (DMCs):**

All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recovery limits were outside Table 6 of SOP HW-35A (Revision 1), qualifications were applied as per Table 7 of SOP HW-35A (Revision 1) to all the samples and analytes as shown below.

No problems were found for this criterion.

**3. MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD):**

MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

Not applicable.

**4. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as per Table 5 of SOP HW-35A (Rev 1).

**A) Method blank contamination:**

No problems were found for this criterion.

**B) Field or rinse blank contamination:**

Not applicable.

**C) Tentatively Identified Compounds:**

Tentatively Identified Compounds (TICs) for BNA organic fraction are not validated.

**5. MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for Semi-volatiles is Decafluorotriphenyl-phosphine (DFTPP). If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems were found for this criterion.



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**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial calibration, ICV and continuing calibration should meet the minimum RRF criteria as listed in Table 2 of SOP HW 35A (Rev 1). If RRF is less than minimum RRF as specified in Table 2 for all target analytes, use professional judgment and all detects in the sample will be qualified as "J+" or "R". All non-detects for that compound will be rejected "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance.

Percent RSD must be less than maximum %RSD in Table 2 of SOP HW 35A (Rev 1) for all target analytes. For the ICV/opening or closing CCV %D must be within the inclusive opening or closing maximum %D limits as listed in Table 2 of SOP HW 35A (Rev 1) for all Target compounds. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, detects may be qualified as "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

**The following analytes in the sample shown were qualified for %RSD and %D:**

No problems were found for this criterion.

**7. INTERNAL STANDARDS PERFORMANCE GC/MS:**

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must be in the range as specified in Table 10 of SOP HW 35A (Rev 1) of the associated continuing calibration internal standard area. The retention time of the internal standards must be within the range as specified in Table 10 of SOP HW 35A (Rev 1). If the area count is greater than, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".



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If an internal standard retention time were not met as specified in Table 10 of SOP HW 35A (Rev 1), the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**8. FIELD DUPLICATES:**

No field duplicate sample was identified in this SDG.

**9. COMPOUND IDENTIFICATION:**

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within 0.06 RRT units of the standard compound and have ion spectra which have a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**10. CONTRACT PROBLEMS NON-COMPLIANCE:**

None.

**11. FIELD DOCUMENTATION:**

No problems were identified.

**12. OTHER PROBLEMS:**

None.

**13. DILUTIONS, RE-EXTRACTIONS and REANALYSIS:**

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.

**ANALYSIS: PEST**

The current SOP HW-36A (Revision 1) October 2016, USEPA Region II for the evaluation of Pesticides data generated through Statement of Work SOM02.2, and any future editorial revisions of SOM02.2 has been applied. Data have been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report.



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**1. HOLDING TIME AND PRESERVATION:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". Use professional judgment to qualify the non-detects (sample quantitation limits), if the holding times are grossly exceeded. If the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**2. SURROGATES:**

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate recovery were outside Table 7 of the SOP HW-36A (Revision 1), qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**3. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD):**

MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

MS/MSD samples were not analyzed for this SDG. As it is mentioned in SDG Narrative, there was no sample designated on the COC for PEST Laboratory QC, nor were any samples received with extra volume for QC.

**4. LABORATORY CONTROL RECOVERY (LCS):**

LCS data is generated to determine the long-term precision and accuracy of the analytical method. The LCS may be used in conjunction with other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**5. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

**A) Method/Instrument blank contamination:**

No problems were found for this criterion.



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**B) Field or rinse blank contamination:**

Not applicable.

**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

For the PESTICIDE fraction, if %RSD exceeds 20% for all analytes except alpha-BHC and delta-BHC 25%, for the two surrogates and Toxaphene 30%, qualify all associated positive results "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**B) The Percent Difference (%D) for each of the SCP and surrogate in the PEM used for CCV must be greater than or equal to -25% and less than or equal to 25.0%. The Percent Difference (%D) between the calibration Factor (CF) for each of the SCP and surrogate in the Calibration Verification Standard (CS3) and the mean calibration factor from the initial calibration must be greater than or equal to -25% and less than or equal to 25.0%. The Percent Difference not within limits, detected associated compounds are qualified "J" and non-detected associated compounds are qualified "UJ". Qualifications were applied to the samples and analytes as shown below.**

No problems were found for this criterion.

**7. FIELD DUPLICATES:**

No field duplicate sample was identified in this SDG.

**8. COMPOUND IDENTIFICATION:**

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract. Qualifications were applied to the samples and analytes as shown below.

**Percent Differences**

- 0% - 25%
- 26% - 200%
- >200% (interference detected)
- >200% (interference not detected)

**Qualifier**

- No qualification
- J
- NJ
- NJ

**The following sample was qualified for % difference on the two columns.**

BFQT2



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**9. CONTRACT PROBLEMS NON-COMPLIANCE:**

None.

**10. FIELD DOCUMENTATION:**

No problems were identified.

**11. OTHER PROBLEMS:**

None.

**12. DILUTIONS, RE-EXTRactions & REANALYSIS:**

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.

**ANALYSIS: ARO**

The current SOP HW-37A (Revision 0) June 2015, USEPA Region II for the evaluation of ARO data generated through Statement of Work SOM02.2 and any future editorial revisions of SOM02.2 has been applied. Data have been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi-Automated Screening Results Report.

**1. HOLDING TIME AND PRESERVATION:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". Use professional judgment to qualify the non-detects (sample quantitation limits), if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**2. SURROGATES:**

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate recovery were outside Table 5 of the SOP HW-37A (Revision 0), qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**3. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD):**

MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with



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other QC criteria for additional qualification of data. Qualifications were applied to the samples and analytes as shown below.

MS/MSD samples were not analyzed for this SDG. As it is mentioned in SDG Narrative, there was no sample designated on the COC for ARO Laboratory QC, nor were any samples received with extra volume for QC.

**4. Laboratory Control Samples (LCS):**

LCS data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problems were found for this criterion.

**5. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U. Qualifications were applied to the samples and analytes as shown below.

**A) Method/Instrument blank contamination:**

No problems were found for this criterion.

**B) Field or rinse blank contamination:**

Not applicable.

**6. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

**A) Percent Relative Standard Deviation (%RSD):**

For the ARO fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and use professional judgment to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

**B) Percent Difference (%D):**

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 25% for analytes and 30% for the two surrogates, qualify all associated positive results "J" and non-detects "UJ".



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**For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results “J” and non-detects “UJ”. Qualifications were applied to the samples and analytes as shown below.**

No problems were found for this criterion.

**7. FIELD DUPLICATES:**

No field duplicate sample was identified in this SDG.

**8. COMPOUND IDENTIFICATION:**

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract. Qualifications were applied to the samples and analytes as shown below.

Percent Differences	Qualifier
0% - 25%	No qualification
26% - 200%	J
>200% (interference detected)	NJ
>200% (interference not detected)	NJ

**The following samples were qualified for % difference on the two columns.**

None.

**9. CONTRACT PROBLEMS NON-COMPLIANCE:**

None.

**10. FIELD DOCUMENTATION:**

No problems were identified.

**11. OTHER PROBLEMS:**

None.

**12. DILUTIONS, RE-EXTRACTIONS & RE-ANALYSIS:**

**Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.**

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: ABLK34	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH: 6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: ALCS34	Method: Aroclors	Matrix: Water	MA Number:
Sample Location:	pH: 6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	1.4		ug/L	1.4		1.0	YES	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1260	Spike	1.3		ug/L	1.3		1.0	YES	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT2	Method: Aroclors	Matrix: Water	MA Number:
Sample Location: D1	pH: 6	Sample Date: 12/12/2019	Sample Time: 09:45:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT2	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: D1	pH: 6	Sample Date: 12/12/2019	Sample Time: 09:45:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
alpha-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
beta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
delta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
gamma-BHC (Lindane)	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor	Target	0.018	J	ug/L	0.018	JP	1.0	YES	S3VEM
Aldrin	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor epoxide	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Endosulfan I	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Dieldrin	Target	0.013	J	ug/L	0.013	J	1.0	YES	S3VEM
4,4-DDE	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan II	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDD	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan Sulfate	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDT	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Methoxychlor	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Endrin ketone	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin Aldehyde	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
cis-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
trans-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Toxaphene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT2	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: D1	pH: 6	Sample Date: 12/12/2019	Sample Time: 09:45:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	YES	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	1.3	J	ug/L	1.3	J	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dimethylphthalate	Target	1.1	J	ug/L	1.1	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbazole	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Tributyl phosphate	TIC	2.1	JN	ug/L	2.1	JN	1.0	YES	NV
Benzene, 1,1-[oxybis(methylene)]b	TIC	2.6	JN	ug/L	2.6	JN	1.0	YES	NV
Total Alkanes	TIC	8.4	B	ug/L	8.4	B	1.0	YES	NV
n-Hexadecanoic acid	TIC	4.9	JN	ug/L	4.9	JN	1.0	YES	NV
2-Chloro-5-methylaniline	TIC	2.5	JN	ug/L	2.5	JN	1.0	YES	NV
Hexanoic acid, 3,5,5-trimethyl-	TIC	17	JN	ug/L	17	JN	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: D1	pH: 1.0	Sample Date: 12/12/2019	Sample Time: 09:45:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.11	J	ug/L	0.11	J	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	8.6	B	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.12	J	ug/L	0.12	J	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.52		ug/L	0.52		1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.12	J	ug/L	0.12	J	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	1.7		ug/L	1.7		1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.44	J	ug/L	0.44	J	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	1.7		ug/L	1.7		1.0	YES	S3VEM
Ethylbenzene	Target	0.55		ug/L	0.55		1.0	YES	S3VEM
o-Xylene	Target	1.1		ug/L	1.1		1.0	YES	S3VEM
m,p-Xylene	Target	1.7		ug/L	1.7		1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.17	J	ug/L	0.17	J	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	1.3		ug/L	1.3		1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	1.8		ug/L	1.8		1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.49	J	ug/L	0.49	J	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene, 1,2,3-trimethyl-	TIC	0.75	JN	ug/L	0.75	JN	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1-ethyl-4-methyl-	TIC	0.51	JN	ug/L	0.51	JN	1.0	YES	NV
Indane	TIC	0.66	JN	ug/L	0.66	JN	1.0	YES	NV
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	0.63	JN	ug/L	0.63	JN	1.0	YES	NV
Mesitylene	TIC	0.96	JN	ug/L	0.96	JN	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT3	Method: Aroclors	Matrix: Water	MA Number:
Sample Location: D3	pH: 6	Sample Date: 12/12/2019	Sample Time: 11:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT3	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: D3	pH: 6	Sample Date: 12/12/2019	Sample Time: 11:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
alpha-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
beta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
delta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
gamma-BHC (Lindane)	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Aldrin	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor epoxide	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Endosulfan I	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Dieldrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDE	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan II	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDD	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan Sulfate	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDT	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Methoxychlor	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Endrin ketone	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin Aldehyde	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
cis-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
trans-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Toxaphene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT3	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: D3	pH: 6	Sample Date: 12/12/2019	Sample Time: 11:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	YES	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dimethylphthalate	Target	1.2	J	ug/L	1.2	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	4.3	J	ug/L	4.3	J	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbazole	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV
2-Furancarboxylic acid	TIC	4.1	JN	ug/L	4.1	JN	1.0	YES	NV
n-Hexadecanoic acid	TIC	2.5	JN	ug/L	2.5	JN	1.0	YES	NV
Heptadecyl heptafluorobutyrate	TIC	5.3	JN	ug/L	5.3	JN	1.0	YES	NV
3-Methyldiphenylamine	TIC	3.1	JN	ug/L	3.1	JN	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQT3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: D3	pH: 1.0	Sample Date: 12/12/2019	Sample Time: 11:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.81		ug/L	0.81		1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	3.7	JB	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.13	JB	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.10	J-	ug/L	0.10	J	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.43	J	ug/L	0.43	J	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	1.4	J-	ug/L	1.4		1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.42	J	ug/L	0.42	J	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.14	J	ug/L	0.14	J	1.0	YES	S3VEM
Trichloroethene	Target	0.19	J	ug/L	0.19	J	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-Xylene	Target	0.10	J	ug/L	0.10	J	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX4	Method: Aroclors	Matrix: Water	MA Number:
Sample Location: Globe Metals Well	pH: 6	Sample Date: 12/12/2019	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX4	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: Globe Metals Well	pH: 6	Sample Date: 12/12/2019	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
alpha-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
beta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
delta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
gamma-BHC (Lindane)	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Aldrin	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor epoxide	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Endosulfan I	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Dieldrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDE	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan II	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDD	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan Sulfate	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDT	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Methoxychlor	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Endrin ketone	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin Aldehyde	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
cis-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
trans-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Toxaphene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: Globe Metals Well	pH: 6	Sample Date: 12/12/2019	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	YES	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dimethylphthalate	Target	1.2	J	ug/L	1.2	J	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	3.1	J	ug/L	3.1	J	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbazole	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
n-Hexadecanoic acid	TIC	2.5	JN	ug/L	2.5	JN	1.0	YES	NV
Propanoic acid, 2-methyl-3-[4-t-bu	TIC	2.6	JN	ug/L	2.6	JN	1.0	YES	NV
Benzenamine, 2-(phenylmethyl)-	TIC	3.7	JN	ug/L	3.7	JN	1.0	YES	NV
Total Alkanes	TIC	5.1	B	ug/L	5.1	B	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Globe Metals Well	pH: 1.0	Sample Date: 12/12/2019	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.19	J	ug/L	0.19	J	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	2.9	JB	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.84		ug/L	0.84		1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.47	J-	ug/L	0.47	J	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.58		ug/L	0.58		1.0	YES	S3VEM
Trichloroethene	Target	0.12	J-	ug/L	0.12	J	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
m,p-Xylene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethyl ether	TIC	0.80	JN	ug/L	0.80	JN	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX9	Method: Aroclors	Matrix: Water	MA Number:
Sample Location: Rinsate Blank	pH: 5	Sample Date: 12/11/2019	Sample Time: 15:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1221	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1232	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1242	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1248	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1254	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1260	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1262	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM
Aroclor-1268	Target	1.0	U	ug/L	1.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX9	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: Rinsate Blank	pH: 5	Sample Date: 12/11/2019	Sample Time: 15:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
alpha-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
beta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
delta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
gamma-BHC (Lindane)	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Aldrin	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor epoxide	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Endosulfan I	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Dieledrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDE	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan II	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDD	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan Sulfate	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDT	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Methoxychlor	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Endrin ketone	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin Aldehyde	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
cis-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
trans-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Toxaphene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX9	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: Rinsate Blank	pH: 5	Sample Date: 12/11/2019	Sample Time: 15:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	YES	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluoranthene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylene glycol dibenzoate	TIC	4.0	JN	ug/L	4.0	JN	1.0	YES	NV
Total Alkanes	TIC	25	B	ug/L	25	B	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFQX9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Rinsate Blank	pH: 1.0	Sample Date: 12/11/2019	Sample Time: 15:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	3.2	J	ug/L	3.2	J	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.30	J	ug/L	0.30	JB	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	2.0		ug/L	2.0		1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	1.3	J-	ug/L	1.3		1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
o-xylene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
m,p-xylene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFRB8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Blank	pH: 1.0	Sample Date: 12/11/2019	Sample Time: 08:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.13	J	ug/L	0.13	JB	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
o-xylene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
m,p-xylene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: BFRB9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Blank	pH: 1.0	Sample Date: 12/12/2019	Sample Time: 08:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	2.8	J	ug/L	2.8	JB	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: PBLK35	Method: Pesticides	Matrix: Water	MA Number:
Sample Location:	pH: 6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
alpha-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
beta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
delta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
gamma-BHC (Lindane)	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Aldrin	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor epoxide	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Endosulfan I	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Dieldrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDE	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan II	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDD	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan Sulfate	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDT	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Methoxychlor	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Endrin ketone	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin Aldehyde	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
cis-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
trans-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Toxaphene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: PLCS35	Method: Pesticides	Matrix: Water	MA Number:
Sample Location:	pH: 6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
alpha-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
beta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
delta-BHC	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
gamma-BHC (Lindane)	Spike	0.042	J	ug/L	0.042	J	1.0	YES	S3VEM
Heptachlor	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Aldrin	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Heptachlor epoxide	Spike	0.042	J	ug/L	0.042	J	1.0	YES	S3VEM
Endosulfan I	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
Dieldrin	Spike	0.084	J	ug/L	0.084	J	1.0	YES	S3VEM
4,4-DDE	Spike	0.083	J	ug/L	0.083	J	1.0	YES	S3VEM
Endrin	Spike	0.079	J	ug/L	0.079	J	1.0	YES	S3VEM
Endosulfan II	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
4,4-DDD	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endosulfan Sulfate	Spike	0.081	J	ug/L	0.081	J	1.0	YES	S3VEM
4,4-DDT	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Methoxychlor	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Endrin ketone	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
Endrin Aldehyde	Target	0.10	U	ug/L	0.10	U	1.0	YES	S3VEM
cis-Chlordane	Target	0.050	U	ug/L	0.050	U	1.0	YES	S3VEM
trans-Chlordane	Spike	0.042	J	ug/L	0.042	J	1.0	YES	S3VEM
Toxaphene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: SBLK31	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location:	pH: 6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	YES	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluoranthene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC	14	N	ug/L	14	N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: SBLK68	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location:	pH: 6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	2.0	U	ug/L	2.0	U	1.0	YES	S3VEM
Benzaldehyde	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Bis(2-Chloroethyl)ether	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2-Chlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,2-oxybis(1-Chloropropane)	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acetophenone	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitroso-di-n-propylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Nitrobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Isophorone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitrophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dimethylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-Chloroethoxy)methane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Naphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chloroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Hexachlorobutadiene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Caprolactam	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Chloro-3-methylphenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Methylnaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorocyclopentadiene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
2,4,6-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4,5-Trichlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,1-Biphenyl	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Chloronaphthalene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2-Nitroaniline	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dimethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,6-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Acenaphthylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Acenaphthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4-Nitrophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Dibenzofuran	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,4-Dinitrotoluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Diethylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluorene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Chlorophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Nitroaniline	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
4,6-Dinitro-2-methylphenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
N-Nitrosodiphenylamine	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
1,2,4,5-Tetrachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
4-Bromophenyl-phenylether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Hexachlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Atrazine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pentachlorophenol	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Phenanthrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Di-n-butylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Fluoranthene	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Butylbenzylphthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
3,3-Dichlorobenzidine	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(a)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Chrysene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bis(2-ethylhexyl)phthalate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Di-n-octyl phthalate	Target	10	U	ug/L	10	U	1.0	YES	S3VEM
Benzo(b)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(k)fluoranthene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(a)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Indeno(1,2,3-cd)pyrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibenzo(a,h)anthracene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Benzo(g,h,i)perylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
2,3,4,6-Tetrachlorophenol	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Total Alkanes	TIC	2.9	N	ug/L	2.9	N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: VBLK02	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	2.6	J	ug/L	2.6	J	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.48	J	ug/L	0.48	J	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: VBLK03	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	2.2	J	ug/L	2.2	J	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.53		ug/L	0.53		1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: VBLK36	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.45	J	ug/L	0.45	J	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: VBLK91	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	3.2	J	ug/L	3.2	J	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.50		ug/L	0.50		1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Acetone	Target	2.2	J	ug/L	2.2	JB	1.0	YES	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylene chloride	Target	0.55		ug/L	0.55	B	1.0	YES	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VEM
Dibromochemicalmethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

# Sample Summary Report

Project Name: PIERSON'S CREEK Project

GroupID: 48579/EPW14030/BFQX9

Lab Name: Chemtech Consulting Group